

# WEST Search History

Hide Items

Restore

Clear

Cancel

DATE: Wednesday, March 10, 2004

Hide?	Set Name	Query	Hit Count
		<i>DB=USPT; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L21	L20 or l19	21
<input type="checkbox"/>	L20	l18 and l8	15
<input type="checkbox"/>	L19	L18[ti,ab]	10
<input type="checkbox"/>	L18	l13 same ((remot\$ or external\$) near2 (data or information or stor\$ or memor\$ or referenc\$))	118
<input type="checkbox"/>	L17	L15 and (gateway\$ or (gate way\$))	10
<input type="checkbox"/>	L16	L15 and (wap or ((wireless or (wire less\$)) adj (application\$ or access\$) adj protocol\$))	1
<input type="checkbox"/>	L15	l13[ti,ab]	53
<input type="checkbox"/>	L14	L13 and l8	62
<input type="checkbox"/>	L13	l5 same (availab\$ or unavailab\$ or access\$ or inaccess\$ or unaccess\$)	676
<input type="checkbox"/>	L12	L11 and (gateway\$ or (gate way\$))	7
<input type="checkbox"/>	L11	L10 and (wap or ((wireless or (wire less\$)) adj (application\$ or access\$) adj protocol\$))	24
<input type="checkbox"/>	L10	l5 same internet\$	232
<input type="checkbox"/>	L9	l7 and l8	5
<input type="checkbox"/>	L8	(709/217 or 709/218 or 709/219 or 707/1 or 707/2 or 707/10).ccls.	7329
<input type="checkbox"/>	L7	L6 and (gateway or (gate way))	28
<input type="checkbox"/>	L6	L5 and (wap or ((wireless or (wire less\$)) adj (application\$ or access\$) adj protocol\$))	58
<input type="checkbox"/>	L5	L1 same (wireless\$ or (wire less\$) or pda or (personal\$ adj digital\$ adj assist\$) or palm\$ or portab\$ or laptop or (lap top) or infrared or blackberry or (black berry) or bluetooth or (blue tooth))	1861
<input type="checkbox"/>	L4	L3 and (gateway or (gate way))	26
<input type="checkbox"/>	L3	L2 and (wap or ((wireless or (wire less\$)) adj application adj protocol\$))	56
<input type="checkbox"/>	L2	L1 same (wireless\$ or (wire less\$) or pda or (personal\$ adj digital\$ adj assist\$) or palm\$ or portab\$ or laptop or (lap top) or infrared or blackberry or (black berry))	1855
<input type="checkbox"/>	L1	local\$ near2 (data or information or stor\$ or memor\$ or referenc\$)	41136

END OF SEARCH HISTORY

5727950 Cook



US006324542B1

(12) **United States Patent**  
**Wright, Jr. et al.**

(10) Patent No.: **US 6,324,542 B1**  
 (45) Date of Patent: **\*Nov. 27, 2001**

(54) **ENTERPRISE CONNECTIVITY TO  
 HANDHELD DEVICES**

#### OTHER PUBLICATIONS

(75) Inventors: **Gerald V. Wright, Jr.**, Solana Beach;  
**James O'Grady**, Del Mar, both of CA  
 (US)

"Managing the Mail-Strom," Infoworld, pp. 142-165, Nov. 14, 1994.\*

Capen, Tracey, "cc:Mail Mobile for Windows is a First Class Mail Upgrade," Infoworld, pg. 98, Feb. 14, 1994.\*

(List continued on next page.)

(73) Assignee: **Wright Strategies, Inc.**, San Diego, CA  
 (US)

*Primary Examiner*—Thomas Black

*Assistant Examiner*—Charles L. Rones

(74) *Attorney, Agent, or Firm*—Knobbe, Martens, Olson & Bear, LLP

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

#### (57) ABSTRACT

A FormLogic (FL) client/server system and method to access existing enterprise data sources on an occasional basis. The system includes a FL builder program to generate a communications agent that encapsulates a communication session. The session includes one or more related tasks. The system also includes a FL server which is connected to one or more enterprise data sources. The FL server provides the ability to link hardware devices running a FL engine as a client to access existing enterprise data sources on an occasional basis. It is optimized to communicate by exchanging a minimum amount of data, since the wireless transports do not move large amounts of data quickly and data is expensive to move. Each session encompasses connecting the remote host, performing a specific task or set of tasks, then disconnecting from the host. Because the connection times must be short, the client and server need to be able to perform the required tasks without user intervention. The FL engine includes a user interface, a script engine, a communications module, and a local data store, and preferably runs on a mobile personal digital assistant. Upon connection, this local database is automatically manipulated by the FL server. The FL server can query the FL client database, add data to the client database, or remove data from the client database so as to make updates to both the client and server databases for reflecting changes that have happened on both sides since the last connection.

(21) Appl. No.: **09/220,284**

(22) Filed: **Dec. 23, 1998**

#### Related U.S. Application Data

(63) Continuation of application No. 08/665,422, filed on Jun. 18, 1996, now Pat. No. 5,857,201.

(51) Int. Cl.<sup>7</sup> ..... **G06F 17/30**

(52) U.S. Cl. .... **707/104.1, 707/10, 707/203, 704/8, 709/206**

(58) Field of Search ..... **707/104.1, 201, 707/10, 4, 203; 709/227, 206; 705/204, 26; 345/330; 455/414, 461; 704/8**

#### (56) References Cited

##### U.S. PATENT DOCUMENTS

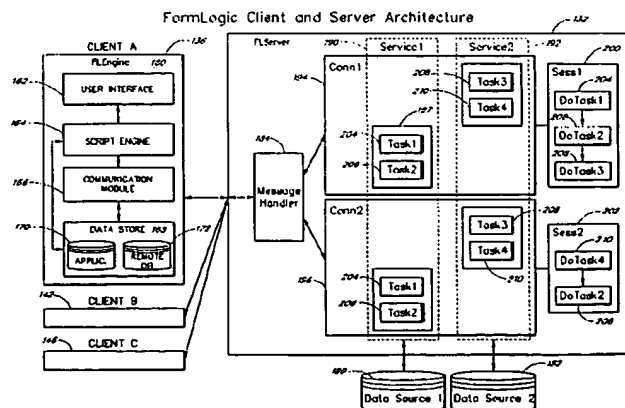
4,603,232 7/1986 Kurland et al. .... 379/92.04  
 4,651,288 3/1987 Zeising ..... 395/117

(List continued on next page.)

##### FOREIGN PATENT DOCUMENTS

WO 94/12938 \* 6/1994 (WO) ..... 15/2

**40 Claims, 5 Drawing Sheets**



First Hit   Fwd Refs

Generate Collection

Print

L12: Entry 1 of 3

File: USPT

Nov 27, 2001

DOCUMENT-IDENTIFIER: US 6324542 B1

TITLE: Enterprise connectivity to handheld devices

Abstract Text (1):

A FormLogic (FL) client/server system and method to access existing enterprise data sources on an occasional basis. The system includes a FL builder program to generate a communications agent that encapsulates a communication session. The session includes one or more related tasks. The system also includes a FL server which is connected to one or more enterprise data sources. The FL server provides the ability to link hardware devices running a FL engine as a client to access existing enterprise data sources on an occasional basis. It is optimized to communicate by exchanging a minimum amount of data, since the wireless transports do not move large amounts of data quickly and data is expensive to move. Each session encompasses connecting the remote host, performing a specific task or set of tasks, then disconnecting from the host. Because the connection times must be short, the client and server need to be able to perform the required tasks without user intervention. The FL engine includes a user interface, a script engine, a communications module, and a local data store, and preferably runs on a mobile personal digital assistant. Upon connection, this local database is automatically manipulated by the FL server. The FL server can query the FL client database, add data to the client database, or remove data from the client database so as to make updates to both the client and server databases for reflecting changes that have happened on both sides since the last connection.

Current US Cross Reference Classification (1):704/8